

**Courses offered by Singapore Management University for PhD Students Exchange Programme
For AY24-25 Term 2 (January 2025 intake) - as of 30 September 2024**

Notes:

- List is subject to changes without prior notice.

School	Course Code	Course Title	Course AU	Course Description (if not available on website)	Class Timetable	Other (e.g. Pass/Fail grading)	Additional Remarks
College of Integrative Studies	INTS701	Studying Cities: Research Methods	1 CU	This course aims to familiarise students with a diversity of research methods for studying cities in an Asian context. The primary objective is to enable students to critically engage with research findings across multiple disciplines by understanding the methods used, their strengths and limitations, and whether they have been used correctly. Students will begin by reflecting on the 'objectivity' of research findings. Following this, three lectures will serve as a statistical primer, ensuring that students possess a solid understanding of fundamental quantitative research methods. Subjects covered will include hypothesis testing, linear regression, causal attribution, and reproducibility, and replicability. The main section of the course will adopt a reading group format. Through supervised discussion of carefully selected research articles, students will be intuitively introduced to research methods in economics, political science, geography, history, law, and the behavioural sciences. The course will conclude with sessions on fieldwork and research ethics, and the practicalities of conducting interdisciplinary research.	TBA	Graded	Enrolment is subject to approval by School
College of Integrative Studies	INTS705	Imperial Sustainability	1 CU	This module is designed to introduce students to an environmental history of imperialism in Malaysia and Singapore. This history is a lens into how our modern environmental and climatic concerns have developed as result of long-held trajectories and entrenched ways of being, often in the name of 'economic development' as well as exploitation. By looking at the colonial era in these two countries the course enables insight into how political and economic development have been tied to uneven power structures, many of which still endure. The course looks at urban development as well as the process of land-use change in the countries more broadly, connecting changes such as population growth to broader environmental and socio-political and economic issues. It also explores the origins of environmental thought, as a direct product of the stark and rapid changes wrought by 'progress'. As the eminent environmental historian Richard Grove once said, colonialism is a lens through which broad and long-term patterns of environmental changes (and their catalysts) can be analysed in microcosm.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	FNCE 704	Market Microstructure Theory	1 CU	This advanced course explores theoretical frameworks that analyze how various (financial) securities are traded in different forms of financial markets – a topic often known as "market microstructure." Students will engage with both foundational and cutting-edge research to understand the behavior of various market participants, the formation of prices, and the role of information in trading processes. Through rigorous qualitative modeling, students will develop a deep comprehension of the factors influencing market quality, like liquidity, efficiency, and stability.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MKTG 714	Marketing Strategy I	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	BSRM 707	Applied Statistics Using STATA	1 CU	This course will equip students with the knowledge and skills that allow them to handle and analyze different types of data pertinent to a variety of empirical problems in business and social science. The emphasis will be on practical issues relating to data analysis and modelling rather than on statistical theory. The overriding objective will be to ensure that the students are confident in data analysis and that they learn how to build and run their own models.	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	OPIM 705	Topics in Advanced Optimisation Techniques	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	OPIM 708	Topics in Interdisciplinary Research in OM	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 706	International Business Theories	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT 709	Organization Theory	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
Lee Kong Chian School of Business	MGMT755	Social Network	0.5 CU	TBA	TBA	Graded	Enrolment is subject to approval by School

School of Computing and Information Systems	CS702	Computational Interaction	1 CU	<p>Computational capabilities enable new ways to design and develop novel interaction technologies. At the same time, it allows us to evaluate and better understand users' behaviors.</p> <p>In this course, we will:</p> <ul style="list-style-type: none"> - Review topics on user-centered design and programming interactive systems that are necessary for completing assignments - Learn how to apply machine learning and optimization techniques like Gaussian process and integer programming for designing user interfaces and information visualizations - Use modern and emerging sensing technologies like speech recognition and gesture recognition to design novel input methods - Learn to model people's behaviors using statistical techniques like Bayesian methods 	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS703	Optimization and Computing	1 CU	<p>This course will introduce students to fundamentals of convex optimisation (such as the notions of convexity, convex sets and functions, linear and quadratic programs, optimality conditions, duality theory etc), and enable students to recognise and solve convex optimisation problems that arise in a variety of computing applications (particularly in the context of AI, machine learning and operations research). Mathematical optimization has become the backbone of several successful AI/ML applications (e.g., linear programming for solving Markov decision problems, quadratic programming for support vector machines, algorithms such as gradient descent for deep learning among several others). The course will endeavour to provide solid foundations in optimization basics that will enable students to understand a variety of such practical applications of mathematical optimization.</p>	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS704	Information Security	1 CU	<p>This course studies the key facets of information security, from theory to applications in a networked environment. Topics to be covered include symmetric key cryptosystems, number-theoretical foundations, public key cryptosystems, authentication, key exchange, access control, internet security architecture, and emerging security standards.</p>	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	CS708	Mobile and Distributed Systems	1 CU	<p>This course studies the key challenges, design choices and core technologies for building some of the most widely-used mobile and Internet-scale distributed applications and services. The focus will be on understanding the key performance bottlenecks and challenges (e.g., energy overheads, workload spikes) that these systems face, and on analyzing and critiquing the various techniques to tackle these challenges. The course will also briefly touch on techniques for prototyping and evaluating user interaction with such systems.</p>	TBA	Graded	Enrolment is subject to approval by School
School of Computing and Information Systems	IS713	Foundations for Data Analytics	1 CU	<p>The overall objective of this course is to familiarize the master and PHD students with data analytics and its applicability in a real business environment. Here, data analytics include the extensive use of data, statistical and quantitative analysis, exploratory and predictive models, and fact-based simulation. The class mainly deals with empirical fundamentals for data analytics. Knowing how to effectively use them (method for data analytics) to solve research problems will be very helpful in students' future professional career.</p> <p>We will study (1) how to systematically understand what you see and (2) how to make what you believe more persuasive. Data analytic tools will be very useful in many situations you are confronted with.</p> <p>The class will be built on applied economics, statistics, and applied econometrics.</p>	TBA	Graded	Enrolment is subject to approval by School
School of Accountancy	ACCT 703	Analytical and Empirical Research in Accounting	1 CU	<p>This course introduces analytical and empirical methods in accounting research. The first half of the course introduces econometric intuitions behind commonly used empirical methods and their applications in accounting research. The class covers various methods such as instrumental variables, natural experiments, regression discontinuity, and matching and selection models, and the application of these methods to various topics, such as financial reporting, disclosure, governance, and tax. The second half of the course focuses accounting theory as it applies to the motivation, intuition, and interpretation of empirical accounting work. Having an appreciation for theory and some experience in how to approach the theory literature makes it easier to form research ideas, develop hypotheses, and understand the results of your work.</p>	TBA	Graded	Enrolment is subject to approval by School

School of Economics	ECON602	Macroeconomics I	1 CU	This course, which is the first course of a two-part Macroeconomics sequence, focuses on familiarizing students with the models, concepts, and techniques commonly used in modern macroeconomic theory and its applications.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON622	Macroeconomics II	1 CU	This course is devoted to studying economies where agents are heterogeneous. These models are helpful to analyze a wide range of questions pertaining to business cycles, income distribution, asset pricing, consumption insurance, labor supply, the aggregate and redistributive effects of policies, etc. We will start with some "aggregation theorems" to show that in some cases a representative agent still exists. Next, we will move towards economies with "incomplete markets" where agents can only borrow and save through a risk-free bond. We begin by characterizing in detail the individual problem. Next, we proceed to the description of the stationary equilibrium. Then, we study an incomplete-markets model with aggregate shocks. The second set of classes are devoted to extend the economies into continuous time model. The last set of classes will introduce economies with heterogeneous firms. The aim of this course is to learn: 1) this important class of heterogeneous agents model, and 2) how to solve numerically for the equilibrium of these economies, a necessary step to use these models for quantitative research.	TBA	Graded	Pre-requisite - ECON622 Macroeconomics I Enrolment is subject to approval by School
School of Economics	ECON623	Econometrics II	1 CU	This is an overview of time series econometrics, designed to introduce students to a range of material in stationary time series, nonstationary time series, multivariate time series, including unit root theory, state-space models, VAR models, and cointegrated models.	TBA	Graded	Pre-requisite - ECON611 Econometrics I Enrolment is subject to approval by School
School of Economics	ECON724	International Trade	1 CU	This course provides a graduate-level introduction to the field of international trade. It will cover the theories and empirics of international trade and policy. The first part introduces the positive theories of trade: including the classical models of trade (that focus on comparative advantage as the source of gains from trade), the new trade theories (that rely on imperfect competition and/or increasing returns to scale as the rationale for trade), and the new-new trade theories (that incorporate firm heterogeneity in predicting the trade structure). This is followed by a review of the theories of outsourcing and foreign direct investment that focus on the trade in intermediate goods and services. The second part introduces the normative theories of trade and evaluates the welfare properties of international trade policies. Topics discussed include the political economy of trade protection, the mechanism design of multilateral trade agreements (GATT/WTO), and the welfare effects of preferential trade agreements.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON740	Empirical Research Project	1 CU	This course introduces the modern theory of "causal inference" which is based on a theory of counterfactuals. In addition to learning several prominent research designs in applied microeconometrics (e.g., propensity score matching, difference-in-differences, regression discontinuity, instrumental variables, synthetic control), students will gain some competency at using Stata to implement these research designs. The goal of the course is to guide students to develop their own empirical research project.	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON745	Topics in Labour Economics	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON746	High Frequency Econometrics	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Economics	ECON748	Real Estate Economics	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Economics	NEW	Topics in International Macroeconomics	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 604	Multivariate Statistics	1 CU	This course will introduce common statistics in social science research to help you evaluate and analyze your data for your research papers. We will focus on the following multivariate statistics: MANOVA, regression analysis, moderation and mediation analysis, exploratory and confirmatory factor analysis, and path analysis. This course will also cover discriminant analysis, meta-analysis, and multi-level analysis. These techniques are important and useful because it helps you to evaluate the quality of the data and to understand and interpret research results. To increase your hands-on experience with statistical analyses, you will be taught how to use Statistical Package for the Social Sciences (SPSS), Mplus, and STATA computer software.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 607	Cognitive Psychology	1 CU	TBA	TBA	Graded	Enrolment is subject to approval by School

School of Social Sciences	PSYC 610	Evolutionary Psychology	1 CU	The field of evolutionary psychology has expanded in recent years and is seeing applicability in a wide variety of domains ranging from mating to business. This postgraduate course aims to provide students with opportunities to become broadly acquainted with theory and research in evolutionary psychology through reading and discussion. In addition, the course aims to give students the opportunity practice summarizing and presenting scientific research, and to propose new research using an evolutionary perspective.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 624	Psychology of Emotion	1 CU	Emotion research is a major area of research that cuts across many of the subdisciplines of psychology. This seminar will introduce you to some of the major issues, approaches, and perspectives on the psychology of emotions from what emotions are, to what they are for, how they are shaped by evolution and culture, and how they affect other aspects of psychology such as perception and judgments. By the end of the course, you should develop an appreciation of the complexity of emotional phenomena as well as a breadth of familiarity with different areas of psychology. In addition, psychologists have borrowed and innovated many different methods to study the emotions. Therefore, another objective of the course is to introduce you to the variety of experimental and statistical methods that have been applied in this research area with the hopes of helping you make connections to your own research interests.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 702	Family Psychology	1 CU	The family environment is a critical context for the development of children and for adult adjustment. This seminar will provide a graduate-level introduction to the field of family psychology. In this course we will delve into major theories and conceptual models that underpin the intricacies of parenting and family interactions. Major theories of close relationships, family dynamics and processes, will be emphasized, including systems theory, ecological models, and lifespan approaches. Topics covered may include family formation, parenting, sexuality, relationships and health, and positive relationship processes. Students will also select readings for two class meetings/topics based on their own research interests and goals. Evaluation will be based on participation in class discussions, leading of class sessions, weekly response papers and hypotheses, and a research proposal.	TBA	Graded	Enrolment is subject to approval by School
School of Social Sciences	PSYC 721	Group Processes and Intergroup Relations	1 CU	Social group identities shape how we perceive ourselves, perceive others from a similar or different social group, and how we get along with each other. This course will review theory and research on intergroup processes and relations from the social psychological literature. The first half of the course will cover fundamental theories on the origins and motives underlying intergroup identity, perception, and behaviour. The second half of the course will focus on intrapersonal, interpersonal, and intergroup consequences of those motives, as well as highlight the evolving literature on improving intergroup attitudes and relations. Novel integration and application of methodologies in the study of intergroup attitudes and processes will be highlighted throughout the course.	TBA	Graded	Enrolment is subject to approval by School